

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 27 FEB 2001

WIPO

PCT

4

Applicant's or agent's file reference P-4856 WO	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/SE99/02018	International filing date (day/month/year) 06.11.1999	Priority date (day/month/year) 06.11.1998
International Patent Classification (IPC) or national classification and IPC <sub>7</sub> B 65 F 1/14, A 47 G 29/06, A 47 B 13/16, A 47 B 83/04		
Applicant Götessons Industri AB et al		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>

Date of submission of the demand  25.05.2000	Date of completion of this report  09.02.2001
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer  Mariana Eddin/CF Telephone No. 08-782 25 00

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/02018

**I. Basis of the report****1. With regard to the elements of the international application:\***

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

**2. With regard to the language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.These elements were available or furnished to this Authority in the following language English which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

**3. With regard to any nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

**4. ☐ The amendments have resulted in the cancellation of:**

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheet/fig \_\_\_\_\_

**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).\*\***

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SE99/02018

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	<u>1-3</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>1-3</u>	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	<u>1-3</u>	YES
	Claims	_____	NO

**2. Citations and explanations (Rule 70.7)**

The present invention concerns an emptyable waste bin for sorting of wastes which are disposed of into the bin. The waste bin comprises at least two compartments (9, 10). According to the invention, the waste bin requires minimal space at a local place of work while enabling sorting of the wastes into at least two fractions since the compartments are hung at a vertical shaft (1) which is rotatably mounted beneath a work table (3) by means of a bearing and mounting arrangement at the upper end of the shaft.

From the cited document US 4736915 A a combination wastebasket and storage shelf on a rotatable platform is known.

The cited document US 5149031 A shows a trash can holder mainly used on city streets. It has a cylindrical wall provided with a bottom closure supported by a stand adapted to be fixed onto a sidewalk or the like. The stand has a top plate on which the bottom closure rests and is transversely shiftable and rotatable relative to the same.

The claimed invention differs mainly from the cited documents in that the compartments of the waste bin are hung at a vertical shaft (1) which is rotatably mounted beneath a work table (3) by means of a bearing and mounting arrangement at the upper end of the shaft.

It is not considered obvious for a person skilled in the art to obtain the invention from the above mentioned documents.

Therefore, the claimed invention is considered to fulfil the requirements of novelty, inventive step and industrial applicability.

## PCT

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

PCT/SE 99/02013

International Application No.

International Filing Date

06-11-1999

The Swedish Patent Office  
PCT International Application

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum)

P-4856 WO

## Box No. I TITLE OF INVENTION

~~Avfallsskorg~~ Waste bin

## Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

GÖTESSONS INDUSTRI AB  
Växtorpsvägen 6  
S-514 61 Dalstorp  
Sweden

☐ This person is also inventor.

Telephone No.

Facsimile No.

Teleprinter No.

State (that is, country) of nationality:

SE

State (that is, country) of residence:

SE

This person is applicant  
for the purposes of:

☐ all designated  
States

☒ all designated States except  
the United States of America

☐ the United States  
of America only

☐ the States indicated in  
the Supplemental Box

## Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

GÖTESSON, Ola  
Rönnvägen 6  
S-514 60 Dalstorp  
Sweden

This person is:

☐ applicant only

☒ applicant and inventor

☐ inventor only (If this check-box  
is marked, do not fill in below.)

State (that is, country) of nationality:

SE

State (that is, country) of residence:

SE

This person is applicant  
for the purposes of:

☐ all designated  
States

☐ all designated States except  
the United States of America

☒ the United States  
of America only

☐ the States indicated in  
the Supplemental Box

☐ Further applicants and/or (further) inventors are indicated on a continuation sheet.

## Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf  
of the applicant(s) before the competent International Authorities as:

☒ agent

☐ common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

ARWIDI, Bengt  
Ahlpatent AB  
Förborgsgatan 27  
S-554 39 Jönköping  
Sweden

Telephone No.

+46-(0)36 718604

Facsimile No.

+46-(0)36 718603

Teleprinter No.

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Deleted  
RO/SE

06.11.1999

**Box No.V DESIGNATION OF STATES**

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes: at least one must be marked):

**Regional Patent**

- ☐ **AP ARIPO Patent:** GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- ☐ **EA Eurasian Patent:** AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- ☒ **EP European Patent:** AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☐ **OA OAPI Patent:** BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

**National Patent (if other kind of protection or treatment desired, specify on dotted line):**

- |  |  |
|--|--|
| <input type="checkbox"/> <b>AE</b> United Arab Emirates                  | <input type="checkbox"/> <b>LR</b> Liberia                                   |
| <input type="checkbox"/> <b>AL</b> Albania                               | <input type="checkbox"/> <b>LS</b> Lesotho                                   |
| <input type="checkbox"/> <b>AM</b> Armenia                               | <input type="checkbox"/> <b>LT</b> Lithuania                                 |
| <input type="checkbox"/> <b>AT</b> Austria                               | <input type="checkbox"/> <b>LU</b> Luxembourg                                |
| <input type="checkbox"/> <b>AU</b> Australia                             | <input type="checkbox"/> <b>LV</b> Latvia                                    |
| <input type="checkbox"/> <b>AZ</b> Azerbaijan                            | <input type="checkbox"/> <b>MD</b> Republic of Moldova                       |
| <input type="checkbox"/> <b>BA</b> Bosnia and Herzegovina                | <input type="checkbox"/> <b>MG</b> Madagascar                                |
| <input type="checkbox"/> <b>BB</b> Barbados                              | <input type="checkbox"/> <b>MK</b> The former Yugoslav Republic of Macedonia |
| <input type="checkbox"/> <b>BG</b> Bulgaria                              |  |
| <input type="checkbox"/> <b>BR</b> Brazil                                | <input type="checkbox"/> <b>MN</b> Mongolia                                  |
| <input type="checkbox"/> <b>BY</b> Belarus                               | <input type="checkbox"/> <b>MW</b> Malawi                                    |
| <input checked="" type="checkbox"/> <b>CA</b> Canada                     | <input type="checkbox"/> <b>MX</b> Mexico                                    |
| <input type="checkbox"/> <b>CH and LI</b> Switzerland and Liechtenstein  | <input checked="" type="checkbox"/> <b>NO</b> Norway                         |
| <input type="checkbox"/> <b>CN</b> China                                 | <input type="checkbox"/> <b>NZ</b> New Zealand                               |
| <input type="checkbox"/> <b>CU</b> Cuba                                  | <input type="checkbox"/> <b>PL</b> Poland                                    |
| <input type="checkbox"/> <b>CZ</b> Czech Republic                        | <input type="checkbox"/> <b>PT</b> Portugal                                  |
| <input type="checkbox"/> <b>DE</b> Germany                               | <input type="checkbox"/> <b>RO</b> Romania                                   |
| <input type="checkbox"/> <b>DK</b> Denmark                               | <input type="checkbox"/> <b>RU</b> Russian Federation                        |
| <input type="checkbox"/> <b>EE</b> Estonia                               | <input type="checkbox"/> <b>SD</b> Sudan                                     |
| <input type="checkbox"/> <b>ES</b> Spain                                 | <input type="checkbox"/> <b>SE</b> Sweden                                    |
| <input type="checkbox"/> <b>FI</b> Finland                               | <input type="checkbox"/> <b>SG</b> Singapore                                 |
| <input type="checkbox"/> <b>GB</b> United Kingdom                        | <input type="checkbox"/> <b>SI</b> Slovenia                                  |
| <input type="checkbox"/> <b>GD</b> Grenada                               | <input type="checkbox"/> <b>SK</b> Slovakia                                  |
| <input type="checkbox"/> <b>GE</b> Georgia                               | <input type="checkbox"/> <b>SL</b> Sierra Leone                              |
| <input type="checkbox"/> <b>GH</b> Ghana                                 | <input type="checkbox"/> <b>TJ</b> Tajikistan                                |
| <input type="checkbox"/> <b>GM</b> Gambia                                | <input type="checkbox"/> <b>TM</b> Turkmenistan                              |
| <input type="checkbox"/> <b>HR</b> Croatia                               | <input type="checkbox"/> <b>TR</b> Turkey                                    |
| <input type="checkbox"/> <b>HU</b> Hungary                               | <input type="checkbox"/> <b>TT</b> Trinidad and Tobago                       |
| <input type="checkbox"/> <b>ID</b> Indonesia                             | <input type="checkbox"/> <b>UA</b> Ukraine                                   |
| <input type="checkbox"/> <b>IL</b> Israel                                | <input type="checkbox"/> <b>UG</b> Uganda                                    |
| <input type="checkbox"/> <b>IN</b> India                                 | <input checked="" type="checkbox"/> <b>US</b> United States of America       |
| <input type="checkbox"/> <b>IS</b> Iceland                               |  |
| <input checked="" type="checkbox"/> <b>JP</b> Japan                      | <input type="checkbox"/> <b>UZ</b> Uzbekistan                                |
| <input type="checkbox"/> <b>KE</b> Kenya                                 | <input type="checkbox"/> <b>VN</b> Viet Nam                                  |
| <input type="checkbox"/> <b>KG</b> Kyrgyzstan                            | <input type="checkbox"/> <b>YU</b> Yugoslavia                                |
| <input type="checkbox"/> <b>KP</b> Democratic People's Republic of Korea | <input type="checkbox"/> <b>ZA</b> South Africa                              |
|  | <input type="checkbox"/> <b>ZW</b> Zimbabwe                                  |

Check-boxes reserved for designating States which have become party to the PCT after issuance of this sheet:

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

06.11.1999

Box No. VI PRIORITY CLAIM		<input type="checkbox"/> Further priority claims are indicated in the Supplemental Box.		
Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application: regional Office	international application: receiving Office
item (1) 06 November 1998 (06.11.1998)	9803792-2	SE		
item (2)				
item (3)				

☒ The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s): 1

\* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

## Box No. VII INTERNATIONAL SEARCHING AUTHORITY

**Choice of International Searching Authority (ISA)**  
(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA / SE

**Request to use results of earlier search; reference to that search** (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

## Box No. VIII CHECK LIST; LANGUAGE OF FILING

This international application contains the following number of sheets:

request : 3 ✓  
description (excluding sequence listing part) : 2 ✓  
claims : 1 ✓  
abstract : 1 ✓  
drawings : 1 ✓  
sequence listing part of description :  
Total number of sheets : 8 ✓

This international application is accompanied by the item(s) marked below:

1. ☐ fee calculation sheet
2. ☐ separate signed power of attorney
3. ☐ copy of general power of attorney; reference number, if any:
4. ☐ statement explaining lack of signature
5. ☐ priority document(s) identified in Box No. VI as item(s):
6. ☐ translation of international application into (language):
7. ☐ separate indications concerning deposited microorganism or other biological material
8. ☐ nucleotide and/or amino acid sequence listing in computer readable form
9. ☐ other (specify):

Figure of the drawings which should accompany the abstract: 1

Language of filing of the international application: Swedish

## Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

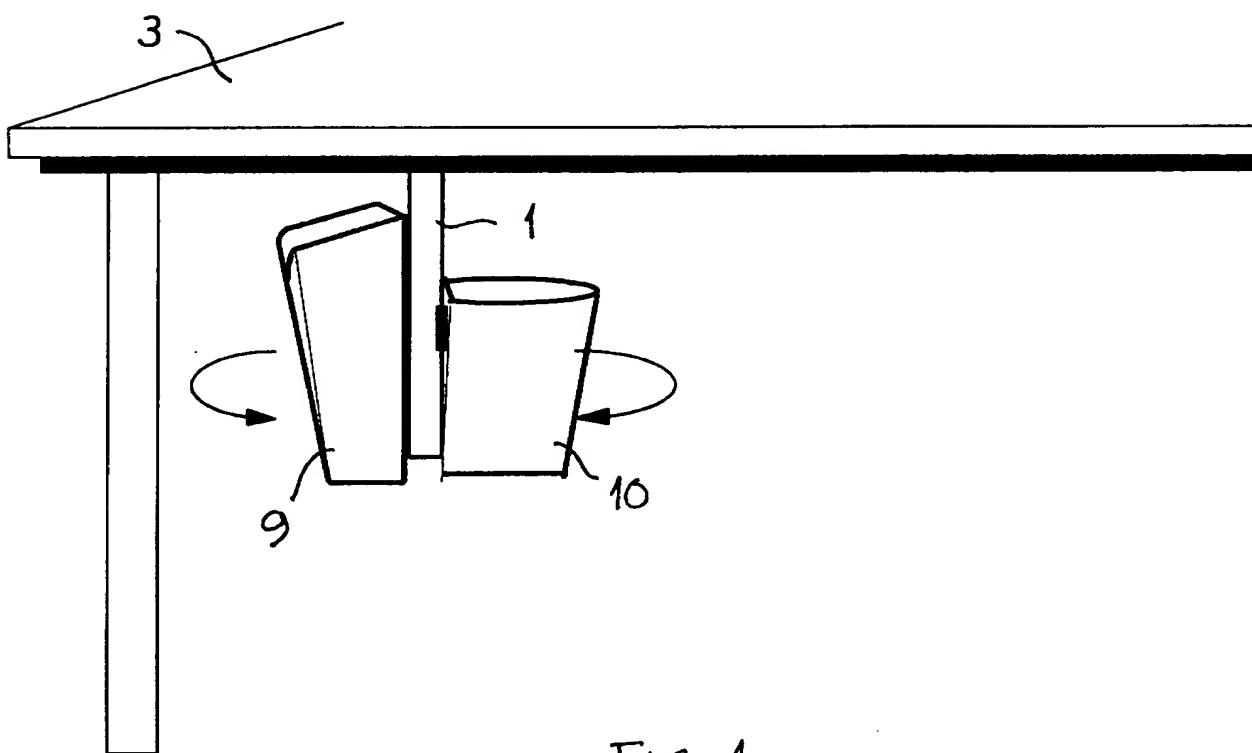
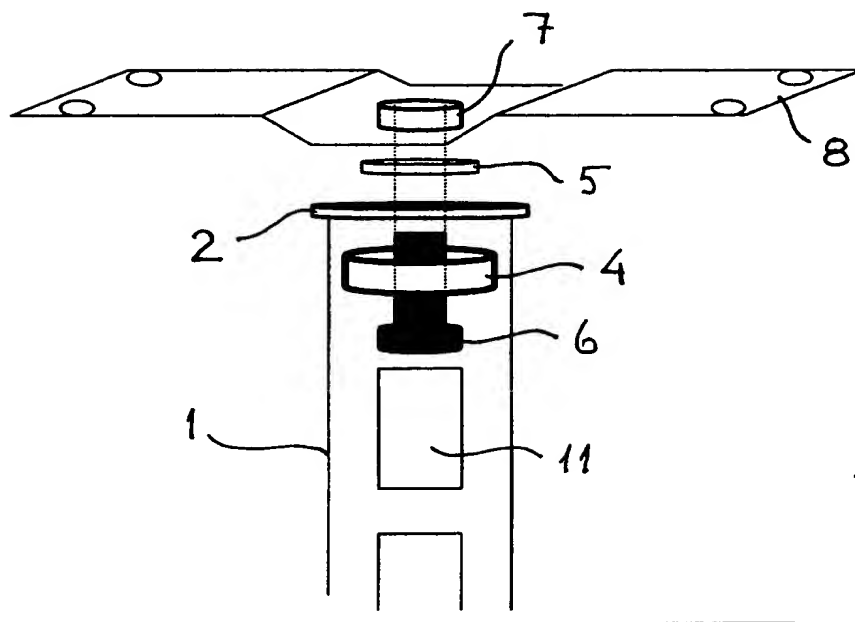
Jönköping, Sweden November 6, 1999



Bengt Arwidi

For receiving Office use only		2. Drawings: <input checked="" type="checkbox"/> received: <input type="checkbox"/> not received:
1. Date of actual receipt of the purported international application: 06-11-1999		
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		
4. Date of timely receipt of the required corrections under PCT Article 11(2):		
5. International Searching Authority (if two or more are competent): ISA / SE	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid.	

For International Bureau use only	
Date of receipt of the record copy by the International Bureau: 29 NOVEMBER 1999	( 29. 11. 99 )



P-4856

# AVFALLSKORG

Föreliggande uppfinning avser en papperskorg med möjlighet till avfallssortering.

5 Papperskorgar för uppsamling av avfall av olika slag används på de flesta arbetsplatser och på många andra ställen. Det är härvid ett önskemål att avfallet skall kunna sorteras i åtminstone två fraktioner. Av utrymmesskäl är detta många gånger inte lämpligt eller möjligt vilket medför att avfallet kastas osorterat i samma behållare med åtföljande nackdelar.

10 Uppfinningen kan sägas utgöra en tömningsbar återvinnings- och avfallsstation på ett minimalt utrymme vid en lokal arbetsplats. Ändamålet med föreliggande uppfinning är att åstadkomma en tömningsbar papperskorg som medger sortering av avfallet i minst två fraktioner och som kan användas även på minimala utrymmen. Den ena fraktionen  
15 kan utgöras av brännbart och återvinningsbart papper medan den andra fraktionen innehåller övrigt avfall såsom plast, band, fruktskal mm. Ytterligare ett ändamål med uppfinningen är att samtliga uppsamlingsbehållare som ingår i papperskorgen skall kunna göras lätt tillgängliga då respektive slag av avfall skall kastas. Ännu ett ändamål  
20 med uppfinningen är att papperskorgen skall kunna monteras på undersidan av ett arbetsbord eller liknande för att därigenom spara golvutrymme. Papperskorgen enligt uppfinningen har de kännetecknande egenskaper som framgår av patentkrav 1, utföringsformer av papperskorgen har de kännetecknande egenskaper som framgår av övriga patentkrav.

25 Uppfinningen skall i det följande beskrivas med hänvisning till det exempel på utföringsform som visas i bifogade figurer.

Figur 1 visar en papperskorg enligt uppfinningen monterad under ett arbetsbord.

30 Figur 2 är en sprängskiss som visar delar av anordningen för lagring och inmontering.

Anordningen innefattar en central axel 1 av fyrkantsrör hålprofil som är vertikalt anordnad. På varje sida av fyrkantsprofilen finns ett flertal genomgående hål 11 för upphängning av fack eller behållare 9, 10. Facken är enkelt lösgörbara genom att de  
35 hakas fast i öppningarna 11 på lämpligt sätt.

Axeln 1 avslutas uppåt med en påsvetsad eller på annat sätt fästad bricka 2 i vilken finns ett centralt hål för en bult 6. Bulten utgör axel för ett axiallager 4 och är i sin övre



ända monterad i en fästplatta 8 medelst en låsbar mutter 7. En glidbricka 5 är anordnad mellan fästplattan 8 och brickan 2. Fästplattan 8 har ett önskat antal hål för att med skruvar fästas på undersidan av ett arbetsbord 3.

- 5 Inom ramen för uppfinningstanken är även andra variationer och utföringsformer möjliga. Axeln kan exempelvis i stället för att utgöras av ett rör innefatta flera parallella, vertikala balkar i vilka facken hängs upp. Antalet fack kan också variera men för vanligt kontorsbruk är två fack ofta tillräckligt.

**PATENTKRAV.**

- 5           1. Tömningsbar papperskorg för sortering av i papperskorgen kastat avfall  
kännetecknad av att papperskorgen har minst två fack (9, 10) vilka är upphängda på  
en vertikal axel (1) som är roterbart infästad under en arbetsyta (3) medelst en vid  
axelns övre ända anordnad lagrings- och infästningsanordning.
- 10           2. Anordning enligt patentkrav 1 kännetecknat därav att facken (9, 10) är lösgörbart  
upphängda på axeln (1).
3. Anordning enligt patentkrav 2 kännetecknad av att axeln (1) är en fyrkantsrör  
hålpofil.

15

## SAMMANDRAG

- 5 Föreliggande uppfinning avser en tömningsbar papperskorg för sortering av i  
papperskorgen kastat avfall. Papperskorgen har minst två fack (9, 10) vilka är  
upphängda på en vertikal axel (1) som är roterbart infästad under en arbetsyta (3)  
medelst en vid axelns övre ända anordnad lagrings- och infästningsanordning.  
Facken (9, 10) är lösgörbart upphängda på axeln (1). Lämpligen utgörs axeln av en  
10 fyrkantströr hålprofil.

Fig 1.